ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

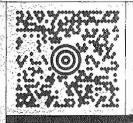
PROJ. O2AH3		PROJEC Cheshire			ng study		NO.			//	Activity Code: 12345
SAMPLER Mike Murp	S: (Print	Name a	and	Sign)	Neh Murg		OF	a l y	t ^e		Air 20020038
STA. NO.	DATE	TIME	COMP	GRAB	Mik Muys	ON LOCATION	CON- TAINERS	An			TAG NUMBERS
D01	2/1	00:00			GHS	· · · · · · · · · · · · · · · · · · ·	1				5-340147 1 to 1
S01	2/1	00:00	X		GHS		1				5-340146 1 to 1
802	2/1	00:00	X -		RVHS		1				5-340148 1-to 1
S03	2/1	00:00	X		ADDAVILLE		1				5-340149 1 to 1
											GHS 3012 PSTY AUG = 18.75
2										+	GHS 3013, PSTY AUG = 18,9
			-								RUHS 3009, PSTg Avg = WO RUN
											- Power Failure)
											Addaville 3011, Psig Aug = 18.2
			-							-	
			-							-	
							7-27-0				
Relinquish		Signature	:)		Date / Time	Received by: (Sign	nature)				Ship To:
Mck M Relinquishe		Signature)	ح ت	Date / Time		nature)				
Kelinquisik	ed by. (c	Jignature	,		Date / Time	Received by. (Oigi	nature)				
150											ATTN:
Relinquishe	ed by: (S	Signature)		Date / Time	Received for Laborate (Signature)	ory by:		te / Time		Airbill Number (APS#1Z 409 19901 4008 4466
						William Son	n gr		102/21/	1/10-	Chain of Custody Seal Numbers
							5-140036	i			

Sampler Mike Murphy		UU38 ARRIN				
Cooler ID	O2AH311	Page 5-1400	36			
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31D01	D01	01/02/2002 00:00:00	○ Grab Com	GHS	1	5-340147 1 to 1
Bottle	No. 1	Parameter PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31S01	S01	01/02/2002 00:00:00	Grab Com	GHS	1	5-340146 1 to 1
Bottle	No. 1	Parameter PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31S02	S02_	01/02/2002-00:00:00	Grab Com	RVHS	4-	5-340148 1 to 1
Bottle	No. 1	Parameter PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31S03	S03	01/02/2002 00:00:00	○ Grab Com	ADDAVILLE	2.41 6) 1
Bottle	No . 1	Parameter	Moto	There WAS N	D KON O	
		PM10	10010	There was in sampler # 3009,	RUHS ON	
				2-1-02.		

FROM:

1 LBS 1 OF 1

SOUTHEAST DISTRICT OFFICE (740) 385-8501 OHIO EPA 2195 E. FRONT STREET LOGAN OH 43138-8637



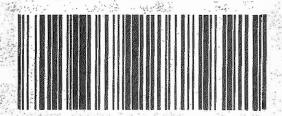
L 606 9-08

SHIP TO:

WILLIAM SARGENT JR.
USEPA CENTRAL REGIONAL LABORATORY
10 FLOOR
536 SOUTH CLARK STREET
CHICAGO IL 60605

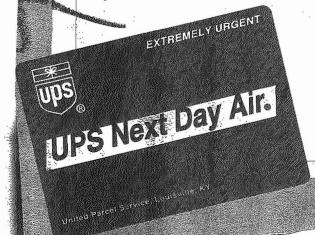


TRACKING #: 1Z 401 199 01 4008 4466



BILLING: P/P

HOWN 3 5 1 Konico E 14 04 08/20



CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0038 CHESHIRE MONITORING

- Chain-of-Custody
- Analysis Request Form(s)*
- □ Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Data Management Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: 14

ata Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

MAR 0 5 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Edgar Santiago, Chemist &

Region 5 Central Regional Laboratory

To:

ttached are the results for:

CHESHIRE MONITORING STUDY

CRL data set number: 20020038

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH31D01, 2002AH31S01, and

2002AH31S03.

MAR	0	5	2002.
1 15 15 1	1	25	(2 pt 50 50.

Data Management Co	oordinator and Date Re	eceived	a e	20	
Date Transmitted:	MAR 0 5 2002	rş.	3 11		
	EPA Project Manager/CRL Sample Coordinate	_	the Customer Satis	sfaction Survey,	
Please sign and date t	this form below and ret	turn it with any c	omments to:		
	Sylvia Griffin Data Management Co Region 5 Central Reg ML-10C		,		
	×	,			
Received by and Date	e		_		
Comments:	* - *	×	e		

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method Detection Limit (MDL)</u> but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te <u>N</u> tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag</u> .
U	This flag in used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 02/01/2002 LAB ARRIVAL DATE: 02/21/2002 DUE DATE: 03/14/2002 DU NUMBER: 90101A DATA SET NUMBER: 20020038 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE#	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		21 P	
1	2002AH31S01	GUIDING HANDS SCHOOL	0.0000			
2	2002AH31D 0 1	GUIDING HANDS SCHOOL	0.0000		Same V	
3	2002AH31S03	ADDAVILLE	0.0039		*	
DATE OF ANALYSIS ANALYST			02/26-27/2002 E.S	n m		

			. 0: 0
Reviewed by:	1 1/1/19	Date: 3 /1 /20	00 Z

Page 1 of 1

Data Set Number:	20020038	Parameter:	Suspended Particles	
Facility Name:	_CHESHIRE MONITO	RING STUDY		
Study Name:	CHESHIRE MONITO	RING STUDY		
Date of Narrative:	02/27/2002	Analyst:	<u>ES</u>	
		Signature:	€ %	84

ANALYSIS CASE NARRATIVE

Three (3) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on February 21, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280008	2002AH31D01	5-340147
Q6280006	2002AH31S01	5-340146
Q6280007	2002AH31S03	5-340149

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 02/26/2002 and was completed on 02/27/2002. All exposed filters were in good conditions.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. O2AH3	- 1	PROJEC								Activity Cool 12345	de:
		Cheshire					NO.	e/	//		
SAMPLER Mike Murp							OF	e l y		// AIR 2002 0038	
	1118	Le 1901	riph	G	Mik Mury	**************************************	CON-	a /	///	/ / / / / / / / / / / / / / / / / / /	
STA. NO.	DATE	TIME	COMP	GR ♠B	STATI	ON LOCATION	CON- TAINERS	And		TAG NUMBERS	
D01	2/1	00:00			GHS		1			5-340147 1 to 1	
S01	2/1	00:00	X		GHS		1			5-340146 1 to 1	
-862	2/1	90:00	X		RVHS	THE STATE OF THE S	1			5-340148-1-te-1	
S03	2/1	00:00	Х		ADDAVILLE	**	1			5-340149 1 to 1	
										GHS 3012, PSTY AUG = 18.75	
						1			-	G#5 3013, PSTY Aug = 18,9	
										RUHS 3009, PSTG AUG = WO KUN	
										- Power Failure)	
										Addaville 3011, Psig Aug = 18,2	
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			- 1							And a supply of the supply of	
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				8			- I was	11		ATTN:	
Relinquishe	ed by: (8	Signature)		Date / Time	Received for Laborato (Signature)	ory by:	Date / Tir		Airbill Number 47 19901 4008 4466	
						Untilities Sy	ns yr	2/21/02/	21166	Chain of Custody Seal Numbers	
							5-140036				

Project No.		CHESHIRE				
O2AH31	AIR 2002	UU38 ARRIV	INZ DATE) 21	121/2012 DUE	DRIE: 3/14/2	1012
Sampler	50					
Mike Murphy		THE STATE OF THE S		SINCE CHARLES AND MINISTERS IN LONG TO LONG THE CONTROL OF THE CON		
Cooler ID	O2AH311	Page 5-1400	036		£(
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	N● Bottles	Tag Numbers
O2AH31D01	D01	01/02/2002 00:00:00	○ Grab Com	GHS	1	5-340147 1 to 1
Bottle	No. 1	Parameter PM10	¥			
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31S01	S01	01/02/2002 00:00:00	○ Grab Com	GHS	1	5-340146 1 to 1
Bottle	No. 1	Parameter PM10				i ác
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31S02	S02	01/02/2002-00:00:00	Grab Com	-RVH3-	4-	5-3401 48 1 to 1
Bottle	No. 1	Parameter PM10		n		
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
O2AH31S03	S03	01/02/2002 00:00:00	Grab Com	ADDAVILLE	1	5-340149 1 to 1
Bottle I	No. 1	Parameter PM10				

Note: There was NO RUN on sampler # 3009, RUHS on 2-1-02,

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY

FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 02/01/2002 LAB ARRIVAL DATE: 02/21/2002 DUE DATE: 03/14/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020038 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		N N	
1	2002AH31S01	GUIDING HANDS SCHOOL	0.0000			
2	2002AH31D01	GUIDING HANDS SCHOOL	0.0000	Κ		
3	2002AH31S03	ADDAVILLE	0.0039	45		
DATE OF ANALYSIS		1	02/26-27/2002			
ANA	ALYST		6.3			

eviewed by:	FRA	Date: 3 //	12002

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page_ of _

ATTACHMENT II CRL Analytical and Inorganics Data Review Checklis	st	
Batch Number: 20020038 Facility: CHESHIDE MON Parameter: PM 10 CRL.SOP: A1G-047	REPORT STUDY	
Package Overview:	YES YES	NO
Raw Data Package Complete?	V	1.45 (1.42)
Results Reported Correctly?	V	- Carl
Special Requests Done?	N/A	
Calculations Checked?		
Calibration Not Exceeded?	NA	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	NA	
Quality Control:	esentence de la companya de la comp	
Holding Times Met?	NA	
Preservation Checked?	NA	
Proper Digestion Verified?	MA	
Initial Instrument Performance Checks Verified?		
Calibration Verification Checked?	NA	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	NA	
Digestion Blanks Checked?	NA	
Spiked Blank Checked?	SIA	
LCS (if applicable) Checked?	NA	
QCS (if applicable) Checked?	NA	
Final Check	and the second s	
Technical Review Done?	V	
Narrative Complete?	le l	
Analyst: ES Peer Reviewer: TAW Date: 3 1 2002 Comments Attached? (Y/N)		

Data Set Number:	20020038	E.	_ Parameter:	Suspended Particles
Facility Name:	<u>CHESHIRE M</u>	<u> MONITOR</u>	ING STUDY	
Study Name:	_CHESHIRE M	<i>MONITOR</i>	ING STUDY	
Date of Narrative:	02/27/2002	2:	Analyst:	<u>ES</u>
		(- 1	Signature	: <u>E.</u> &

ANALYSIS CASE NARRATIVE

Three (3) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on February 21, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280008	2002AH31D01	5-340147
Q6280006	2002AH31S01	5-340146
Q6280007	2002AH31S03	5-340149

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 02/26/2002 and was completed on 02/27/2002. All exposed filters were in good conditions.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020035- 20020040

Date of Analysis 02/26-27/2002

Analyst:

ES

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences		
Actual (g)	Balanced (g)	(g)		
		Limit +/-0.0005 g		
1.0000	1.0001	-0.0001		
2.0000	2.0001	-0.0001		

QC-SUMMARY FOR EXPOSED FILTERS

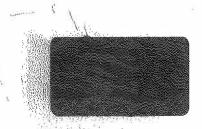
Filter ID	CRL Sample	Analysis	ANALYST	Exposed	
Number	I.D Number	Date		weight (g)	
Q6280087	2002AH30S02	02/27/02	Analyst 1	4.3952	
Q6280087	2002AH30S02	02/27/02	Analyst 2	4.3954	
Differences (Limit +/-	5 mg)		A for a supplemental supplement	-0.0002	
Q6280004	2002AH30S03	02/27/02	Analyst 1	4.3804	
Q6280004	2002AH30S03	02/27/02	Analyst 2	4.3807	
Differences (Limit +/-	5 md)	*********		-0.0003	

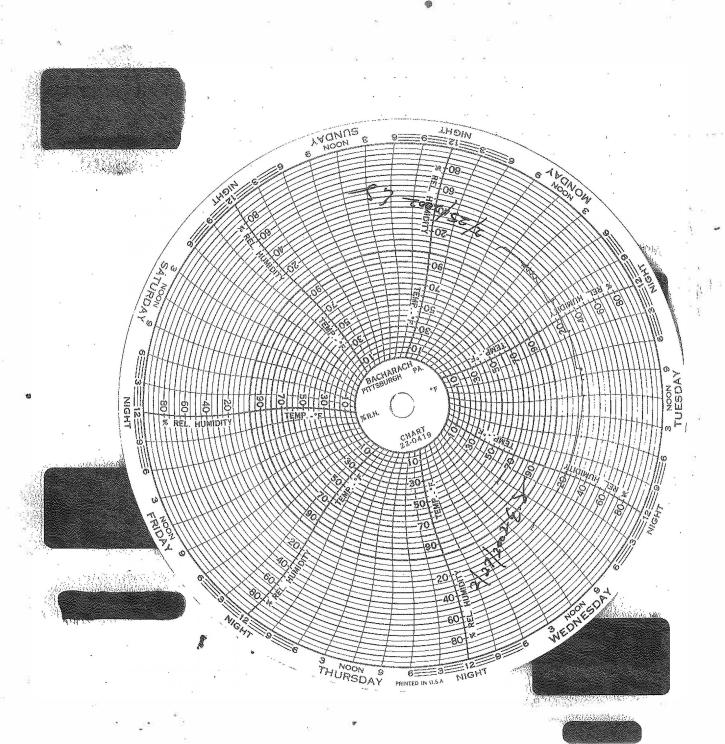
CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
			H-1								
	7_/										
Data set N	umber 20020038					4					
Q6280008	2002AH31S01	02/01/02	Guiding Hands School	3012	18.75		0.00	4.3420	4.3370	0.0000	ERR
Q6280006	2002AH31D01	02/01/02	Guiding Hands School		18.20		0.00	4.3721	4.3692	0.0000	ERR
				0044	40.00		0.00	4.2002	4 2701	0.0039	ERR
Q6280007	2002AH31S03	02/01/02	Addaville	3011	18.20		0.00	4.3662	4.3701	0.0039	EKK

Balanced weights, balanced (g) General information Standard weights, actual (g) partarolds 5,00 5,0001 1,00 0,50 2,00 7,00 7,000) (500+200+200+100) ARTORIUS 1.0000 1.0001 5/2 37010119 2.0000 2.0001 2 27 2002 8.8 5.00000 4.9998

1	700				
FILTER	THEE	DUP	EXPOSED	EXPOSED	COMMENTS
I.D.	wt	wt:	nt	wt. DUP	
	(g)	(9)	(9)	(g)	The state of the s
\$6280088	4.3680	The state of the s	4.3880		The state of the s
1 april	4.3802	and the second s	4.3952	4.3954	
Q6280086	4.3774	NACHMAN STRUCKUL KRISTERSKALLER FARRENDE STRUKTUR KRISTER	4.4076	E	y 1/2 y
06280010	4-3762	Commence According to the Commence of the Comm	4.3941		
Q6280009					The company the complete promotion transfer the commitment of the
06280008	4.3420	maar mengaj kan kalausa ini kalausa angka dadaan er menghir e sebah angka kan k	4.3370	11 June 11 11 11 11 11 11 11 11 11 11 11 11 11	A CONTROL IN SECULIAR
Q6280007	4.3662	and the second of the second o	4.3701		1000
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Q6280004	43647	Annual Conference of the section of	4.3804	4.3807	
96280003	4.3563	and a second sec	4.37 5	1	
Q6280002	4.3415	Version and the control of the contr	4-3532		
Q6280001	- Commence of the Commence of	· · · · · · · · · · · · · · · · · · ·	4.3574	Last consequences and desired	a new transfer of the second section of the section of
	4.3727	TOTAL TIP WAS TRIVED BY THE TAX TO THE STANDARD BY	4.3816		······································
06279999	4-3639	the second section of the section of th			· · · · · · · · · · · · · · · · · · ·
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06279997	4.3703	and the state of t	4.3812	Market from the terror was transfer and the terror and products	Attended to the second of the
06279996	4.3715	PRINTED TO THE PROPERTY OF THE	II SEPAN-HIPANENAN MAHIMINING PARISAN MAHAMINING PARISAN P	The second advances and the second se	The state of the s
Q6280093	4.3732		Manufacture Thought a former on a communication and the contraction to the contraction of	mercial defendance in the part of age is common and the first translation of the common terms of the commo	The state of the s
Q6220094	4.3557	processing and describe the second contract of the	and the second s		
0.628 0095	4.3828	5.70			
Q6280124	4.3725	mentioned in the second second	to be an experience of the control process when the fact that the control of the		and and the same a
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Q6280123	CETTED AND PROPERTY OF THE LAND OF THE PARTY OF THE PROPERTY OF THE PARTY OF THE PA	Constitution of the state of th	4.4277	4.4281	
1801-15-161-	10 saind		143130	1	Small





S M ND 80 Sample ID 02AH31503
Sampler Mich Mullip
Date C2-01-02

2002002 Parameters PM10

US EPA Region 5 Field Sample

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SED TWE 14	RECORDER RESP.		
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MINUTES	74.2		
TO T			O
LimmHg.			
MIA	Ţ		
	LWT		

	Parameters PM10					
	200200	38	<u></u>			
	Preservative None	S	M	MO	B	Short
	Sample ID 02AH31S01	Χ				
4	Sampler Mile Mura	V				
200	Date 62-01-02	a				-

US EPA Region 5 Field Sample

COMMENTS .W/pn= OL-Mrd JAUTOA OLS **ZMBTEALL** ,UL WOJA JATOT ujui/,ui MODE .**6**Huxu^{*} IMLIVE ML MINITES SSEWE ODD BINL GESAVIE TW JANF dM3) VNG KECORDER RESP. 1877 g Pa - 210£ C/19 **3LIS** dSL T BING ANERO ROTARISMO **GAORAS** orwa

o s w w o s × Sampler Much Much Preservative None Sample ID 02AH31D01

	APSED THE	S R R S S D B		
	PSED TIME	RECORDER RESP. 15-1-	Sile (45.3013)	SAROAD
TOTAL FLOW			The same of the sa	
	L milling	°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°		DERATOR 10/2/04
SAMPLEWI	TWINIAL WT	FINAL WILL		PAI